ZOOLOGY

Paper II: Biochemistry and Animal Physiology-I (ZOO-302)

Time Allowed: Three Hours

Maximum Marks: 36

Note: Attempt five questions in all, at least one from each Unit. Question No. 1 is compulsory. Draw neat and well-labelled diagrams wherever required.

- 1. Write short notes on:
 - (a) Aldoses
 - (b) Chargaff's rules
 - (c) Non-protein enzymes
 - (d) Energy balance of glycolysis

	Dilaban	
	(e) Difference between extracellular and intracellular digestion	
	(f) Bohr effect	5
	(g) Agranulocytes	1×8=8
	(h) Blood pressure	1 ^ 0 = 0
	UNIT-I	. 3
2.	(a) Write note on scope of biochemistry.	. 1
	(b) Give a brief description of isomerism in monosaccharides.	of
3.	(a) Describe characteristics of alpha helix secondary structu	110 911. 1
	proteins	
	(b) Give a brief account of characteristics and functions of mRN	A. 3
	UNIT-II	3
4.	(a) What are various properties of enzymes?	4
	(b) What are hydrolases enzymes and their different types?	
5.	(a) Explain the process of glycogenolysis in brief.	31/2
	(b) Make a flow diagram to explain the process of glycolysis.	31/2
	UNIT-III	_
6.	Explain the digestion and absorption of proteins in humans.	7.
7.	Write notes on the following:	
	(a) Oxygen dissociation curve of haemoglobin	31/2
	(b) Chloride shift	31/2
	UNIT-IV	
8.	Writes notes on the following:	
,	(a) Plasma proteins and their functions	4
	(b) ABO blood grouping system	3
9.	Give a detailed account of origin and regulation of heart beat.	7
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DUMIADI (Campulaami)